
Rufin VANRULLEN

Peer-reviewed Articles since 2016

1. Choksi, B., Mozafari, M., VanRullen, R., & Reddy, L. (2022). Multimodal neural networks better explain multivoxel patterns in the hippocampus. *Neural Networks*. doi: 10.1016/j.neunet.2022.07.033
2. Ozcelik, F., Choksi, B., Mozafari, M., Reddy, L., & VanRullen, R. (2022). Reconstruction of perceived images from fMRI patterns and semantic brain exploration using Instance-Conditioned GANs. *Int. Joint Conf. Neural Networks (IJCNN)*.
3. VanRullen, R. (2022). Deep learning in alternate reality. *Nature Human Behaviour*, 6(1), 27-28.
4. Vaishnav, M., Cadene, R., Alamia, A., Linsley, D., VanRullen, R., & Serre, T. (2022). Understanding the computational demands underlying visual reasoning. *Neural Computation*, 34 (5), 1075-1099
5. Merholz, G., Grabot, L., VanRullen, R., & Dugué, L. (2022). Periodic attention operates faster during more complex visual search. *Scientific Reports*, 12(1), 1-14.
6. Bielawski, R., Devillers, B., Van de Cruys, T., & VanRullen, R. (2022). When does CLIP generalize better than unimodal models? When judging human-centric concepts. ACL 2022: 7th workshop on *Representation Learning for NLP* (Rep4NLP 2022), 29-38
7. Decourt, C., VanRullen, R., Salle, D., & Oberlin, T. (2022). DAROD: a deep automotive radar object detector on range-doppler maps. *Proceedings of the 33rd IEEE Intelligent Vehicles Symposium* (IV 2022), 112-118.
8. Fakche, C., VanRullen, R., Marque, P., & Dugué, L. (2022). Alpha Phase-Amplitude Tradeoffs Predict Visual Perception. *eNeuro*, 9(1).
9. Luo, C., Chen, W., VanRullen, R., Zhang, Y., & Gaspar, C. M. (2022). Nudging the N170 forward with prior stimulation—Bridging the gap between N170 and recognition potential. *Human brain mapping*, 43(4), 1214-1230.
10. Choksi, B., Mozafari, M., Biggs O'May, C., Ador, B., Alamia, A., & VanRullen, R. (2021). Predify: Augmenting deep neural networks with brain-inspired predictive coding dynamics. *NeurIPS 2021: Advances in Neural Information Processing Systems*, 34.
11. Pang, Z., Biggs O'May, C., Choksi, B. & VanRullen, R. (2021). Predictive coding feedback results in perceived illusory contours in a recurrent neural network. *Neural Networks*. doi: 10.1016/j.neunet.2021.08.024.
12. VanRullen, R., & Kanai, R. (2021). Deep learning and the Global Workspace Theory. *Trends in Neurosciences*. 44(9), 692-704
13. VanRullen, R., & Alamia, A. (2021). GAttANet: Global attention agreement for convolutional neural networks. *Lecture Notes in Computer Science: Artificial Neural Networks and Machine Learning*, 12891, 1-11.
14. Choksi, B., Mozafari, M., VanRullen, R., & Reddy, L. (2021). Multimodal neural networks better explain multivoxel patterns in the hippocampus. In Neural Information Processing Systems (NeurIPS) conference: 3rd Workshop on *Shared Visual Representations in Human and Machine Intelligence* (SVRHM 2021).
15. Reddy, L., Self, M.W., Zoefel, B., Poncet, M., Possel, J.K., Peters, J.C., Baayen, J.C., Idema, S., VanRullen, R. and Roelfsema, P.R., (2021). Theta-phase dependent neuronal coding during sequence learning in human single neurons. *Nature Communications*, 12(1), 1-9.
16. Devillers, B., Choksi, B., Bielawski, R., & VanRullen, R. (2021). Does language help generalization in vision models? *CoNLL2021: Proceedings of the 25th Conference on Computational Natural Language Learning*, 171-182.
17. Reddy, L., Cichy, R. M., & VanRullen, R. (2021). Representational content of oscillatory brain activity during object recognition: contrasting cortical and deep neural network hierarchies. *eNeuro*, 8(3).
18. Chalvidal, M., Ricci, M., VanRullen, R., & Serre, T. (2021). Go with the flow: Adaptive control for Neural ODEs. *ICLR 2021: International Conference on Learning Representations*.
19. Luo, C., Brüers, S., Berry, I., VanRullen, R., & Reddy, L. (2021). Tentative fMRI signatures of perceptual echoes in early visual cortex. *NeuroImage*, 237, 118053.
20. Luo, C., VanRullen, R., & Alamia, A. (2021). Conscious perception and perceptual echoes: a binocular rivalry study. *Neuroscience of Consciousness*, 2021(1), niab007.
21. Chota, S., Marque, P., & VanRullen, R. (2021). Occipital Alpha-TMS causally modulates Temporal Order Judgements: Evidence for discrete temporal windows in vision. *NeuroImage*, 237, 118173.
22. Alamia, A., Luo, C., Ricci, M., Kim, J., Serre, T., & VanRullen, R. (2020). Differential involvement of EEG oscillatory components in sameness vs. spatial-relation visual reasoning tasks. *eNeuro*
23. Alamia, A., Timmermann, C., Nutt, D. J., VanRullen, R.*, & Carhart-Harris, R. L.* (2020). DMT alters cortical travelling waves. *eLife* 9, e64623.
24. Pang, Z., Alamia, A., & VanRullen, R. (2020). Turning the Stimulus On and Off Changes the Direction of α Traveling Waves. *eNeuro* 7(6).
25. Alamia, A., Gauducheu, V., Paisios, D., & VanRullen, R. (2020). Comparing feedforward and recurrent neural network architectures with human behavior in artificial grammar learning. *Scientific Reports* 10(1), 1-15.
26. Schwenk, J. C., VanRullen, R., & Bremmer, F. (2020). Dynamics of visual perceptual echoes following short-term visual deprivation. *Cerebral Cortex Communications*.
27. Mozafari, M., Reddy, L., & VanRullen, R. (2020). Reconstructing Natural Scenes from fMRI Patterns using BigBiGAN. *Int. Joint Conf. Neural Networks (IJCNN)*.
28. Chota, S., McLelland, D., Lavergne, L., Zimmermann, E., Cavanagh, P., & VanRullen, R. (2020). Full Field Masking Causes Reversals in Perceived Event Order. *Front. Neurosci.*, 14, 217.
29. Gaillard, C., Hassen, S. B. H., Di Bello, F., Bihan-Poudec, Y., VanRullen, R., & Hamed, S. B. (2020). Prefrontal attentional saccades explore space rhythmically. *Nature Comm*, 11(1), 1-13.
30. Alamia, A., & VanRullen, R. (2019). Alpha oscillations and traveling waves: Signatures of predictive coding? *PLoS Biol.*, 17(10).
31. VanRullen, R., Reddy, L. (2019). Reconstructing faces from fMRI patterns using deep generative neural networks *Communications Biology* 2(1), 193.

32. Gulbinaite, R., Roozendaal, D. H. M., & VanRullen, R. (2019). Attention differentially modulates the amplitude of resonance frequencies in the visual cortex. *Neuroimage*, 203(116146).
33. Alamia, A., VanRullen, R., Paqualato, E., Mouraux, A., Zenon, A. (2019). Pupil-linked arousal responds to unconscious surprisal. *J Neurosci*, 39(27), 5369-5376.
34. Dugué, L., Beck, A., Marque, P. & VanRullen, R. (2019). Contribution of FEF to attentional periodicity during visual search: a TMS study. *eNeuro*, 6(3).
35. Chota, S. & VanRullen, R. (2019). Visual entrainment at 10 Hz causes periodic modulation of the flash lag illusion. *Front. Neurosci.* 13(232).
36. Lozano-Soldevilla, D. & VanRullen, R. (2019). The hidden spatial dimension of alpha: 10 Hz perceptual echoes propagate as periodic travelling waves in the human brain. *Cell Reports*, 26(2), 374-380.
37. Alamia, A., Zenon, A., VanRullen, R., Duque, J. & Derosiere, G. (2018). Implicit visual cues tune oscillatory motor activity during decision-making. *Neuroimage*, 186, 424-436.
38. Chota, S., Luo, C., Crouzet, S.M., Boyer, L., Kienitz, R., Schmid, M.C. & VanRullen, R. (2018). Rhythmic fluctuations of saccadic reaction time arising from visual competition. *Scientific Reports* 8(1), 15889
39. VanRullen, R. (2018). Attention cycles. *Neuron*, 99(4), 632-634.
40. Bruers, S. & VanRullen, R. (2018). Alpha Power Modulates Perception Independently of Endogenous Factors. *Front. Neurosci.* 12:279.
41. Baures, R., Balestra, M., Rosito, M. & VanRullen, R. (2018). The detrimental influence of attention on time-to-contact perception. *Att. Percept. Psychophys.* 80(6), 1591-1598.
42. Benedetto, A., Lozano-Soldevilla, D. & VanRullen, R. (2018). Different responses of spontaneous and stimulus-related alpha activity to ambient luminance changes. *Eur J Neurosci*, 48(7), 2599-2608.
43. Edwards, G., VanRullen, R. & Cavanagh, P. (2018). Decoding trans-saccadic memory. *J Neurosci* 38(5), 1114-1123.
44. Gulbinaite, R., van Viegen, T., Wieling, M., Cohen. M.X. & VanRullen, R. (2017). Individual alpha peak frequency predicts 10 Hz flicker effects on selective attention. *J Neurosci*, 37(42) 10173-10184
45. Gulbinaite, R., Ilhan, B. & VanRullen, R. (2017). The triple-flash illusion reveals a driving role of alpha-band reverberations in visual perception. *J Neurosci* 37(30), 7219-7230.
46. Chang, A., Schwartzman, D.J., VanRullen, R., Kanai, R. & Seth, A.K. (2017). Visual perceptual echo reflects learning of regularities in rapid luminance sequences. *J Neurosci* 37(35), 8486-8497.
47. Brüers, S. & VanRullen, R. (2017). At what latency does the phase of brain oscillations influence perception? *eNeuro* 4(3):e0078-17.2017.
48. Dugué, L. & VanRullen, R. (2017). Transcranial Magnetic Stimulation reveals intrinsic perceptual and attentional rhythms. *Front. Neurosci.* 11:154.
49. Zoefel, B. & VanRullen, R. (2017). Oscillatory mechanisms of stimulus processing and selection in the visual and auditory systems: State-of-the-art, speculations and suggestions. *Front. Neurosci.* 11:296.
50. Edwards, G., Paeye, C., Marque, P., VanRullen, R. & Cavanagh, P. (2017). Predictive position computations mediated by parietal areas: TMS evidence. *Neuroimage* 153, 49-57
51. VanRullen, R. (2017). Perception Science in the age of Deep Neural Networks. *Front. Psychology* 8:142.
52. Zoefel, B., Costa-Faidella, J., Lakatos, P., Schroeder, C.E. & VanRullen, R. (2017). Characterization of neural entrainment to speech with and without slow spectral energy fluctuations in laminar recordings in monkey A1. *NeuroImage* 150, 344-357.
53. Han, B. & VanRullen, R. (2017). The rhythms of predictive coding? Pre-stimulus phase modulates the influence of shape perception on luminance judgments. *Scientific Reports* 7, 43573.
54. VanRullen, R. (2016). Perceptual cycles. *Trends Cogn Sci* 20(10), 723-735.
55. McLelland, D. & VanRullen, R. (2016). Theta-Gamma Coding Meets Communication-through-Coherence: Neuronal Oscillatory Multiplexing Theories Reconciled. *PLoS Comput Biol* 12(10), e1005162
56. Sun, H.-M., Inyutina, M., VanRullen, R. & Wu, C.-T. (2016). The temporal advantage for reloading vs. uploading conscious representations decays over time. *Neurosci Consc* 216(1), niw017.
57. VanRullen, R. (2016). How to evaluate phase differences between trial groups in ongoing electrophysiological signals. *Front. Neurosci* 10:426.
58. Sherman, M. T., Kanai, R., Seth, A. K., & VanRullen, R. (2016). Rhythmic influence of top-down perceptual priors in the phase of pre-stimulus occipital alpha oscillations. *J Cogn Neurosci*, 28(9), 1318-1330.
59. McLelland, D., Lavergne, L. & VanRullen, R. (2016). The phase of ongoing EEG oscillations predicts the amplitude of peri-saccadic mislocalization. *Scientific Reports* 6, 29335.
60. Sokoliuk, R. & VanRullen, R. (2016). Global and local oscillatory entrainment of visual behavior across retinotopic space. *Scientific Reports* 6, 25132.
61. Han, B. & VanRullen, R. (2016). Shape perception enhances perceived contrast: evidence for excitatory predictive feedback? *Scientific Reports* 6, 22944.
62. Miconi, T. & VanRullen, R. (2016). A Feedback Model of Attention Explains the Diverse Effects of Attention on Neural Firing Rates and Receptive Field Structure. *PLoS Comput Biol* 12(2): e1004770.
63. Senoussi, M., Berry, I., VanRullen, R. & Reddy, L. (2016). Multivoxel Object Representations in Adult Human Visual Cortex Are Flexible: An Associative Learning Study, *J Cogn Neurosci* 28(6), 852-868.
64. Zoefel, B. & VanRullen, R. (2016). EEG oscillations entrain their phase to high-level features of speech sound. *Neuroimage*, 124, 16-13.

Book Chapters since 2016

1. Sokoliuk, R. & VanRullen, R. (2019). Perceptual illusions caused by discrete sampling. In *"The illusions of Time: Philosophical and Psychological Essays on Timing and Time Perception"*, Eds: A. Bardon, V. Arstila, S. Power & A. Vatakis. Palgrave Macmillan, pp. 315-338.
2. VanRullen, R. (2018). Perceptual Rhythms, in *"Stevens Handbook of Experimental Psychology and Cognitive Neuroscience, Vol 2: Sensation, Perception and Attention"* Ed: J. Serences. Wiley, doi:10.1002/9781119170174.epcn212.

Invited Oral Presentations in International Conferences since 2016

1. **VanRullen, R. (2022).** Deep predictive coding for more robust and human-like vision, Invited presentation, IS 2022: SIAM conference on Imaging Science (online).
2. **VanRullen, R. (2021).** Do deep learning latent spaces resemble human brain representations? NeuroCog 2021 (Louvain, Belgium).
3. **VanRullen, R. (2021).** Deep predictive coding for more robust and human-like vision, Invited presentation, SMB 2021: Annual meeting of the Society for Mathematical Biology (online).
4. **VanRullen, R. (2019).** Perceptual Cycles, Waves and Predictive Coding, Invited presentation, Asia-Pacific Conference on Vision (Osaka, Japan).
5. **VanRullen, R. (2019).** Perceptual Cycles, Waves and Predictive Coding, Invited presentation, York University VISTA - Centre for Vision Research International Conference on Predictive Vision, Toronto (Canada).
6. **VanRullen, R. (2019).** Perceptual Cycles, Waves and Predictive Coding, Invited presentation, Dynamics of Vision and Touch (DyViTo), Rauischholzhausen (Germany).
7. **VanRullen, R. (2018).** Perceptual Cycles, Waves and Predictive Coding, Invited presentation, Alpha Scales workshop, European Institute of Theoretical Neuroscience, Paris (France).
8. **VanRullen, R. (2018).** Perceptual Cycles, Waves and Predictive Coding, Invited presentation, Symposium on New trends in decision-making: decision as inference? Paris (France).
9. **VanRullen, R. (2017).** Perceptual Cycles and Waves, Invited presentation, Timing Research Forum, Strasbourg (France).
10. **VanRullen, R. (2017).** Perceptual Cycles, Invited keynote presentation, Association for the Scientific Study of Consciousness meeting, Beijing, (China).
11. **VanRullen, R. (2017).** Perceptual Cycles in Vision and Audition, Invited presentation, Neural Oscillations in Speech and Language Processing Symposium, Berlin (Germany).

Conference Proceedings since 2016:

1. **Alamia, A., Mozafari, M., Choksi, B. & VanRullen, R. (2022).** On the role of feedback in visual processing: a predictive coding perspective. Cognitive Computational Neuroscience (CCN 2022), San Francisco (USA).
2. **Choksi, B., VanRullen, R. & Reddy, L. (2022).** Do multimodal neural networks better explain human visual representations than vision-only networks? CCN Cognitive Computational Neuroscience (CCN 2022), San Francisco (USA).
3. **Muzellec, S., Chalvidal, M., Serre, T. & VanRullen, R. (2022).** Accurate implementation of computational neuroscience models through neural ODEs. Cognitive Computational Neuroscience (CCN 2022), San Francisco (USA).
4. **Ozcelik, F., Choksi, B., Mozafari, M., Reddy, L., & VanRullen, R. (2022).** Reconstruction of perceived images from fMRI patterns and semantic brain exploration using Instance-Conditioned GANs. International Joint Conference on Neural Networks (IJCNN).
5. **Bielawski, R., Devillers, B., Van de Cruys, T., & VanRullen, R. (2022).** When does CLIP generalize better than unimodal models? When judging human-centric concepts. ACL 2022: 5th workshop on Representation Learning for NLP (Rep4NLP 2022)
6. **Decourt, C., VanRullen, R., Salle, D., & Oberlin, T. (2022).** DAROD: a deep automotive radar object detector on range-doppler maps. Proceedings of the 33rd IEEE Intelligent Vehicles Symposium (IV 2022).
7. **VanRullen, R. (2022).** Deep predictive coding for more robust and human-like vision, Invited presentation, IS 2022: SIAM conference on Imaging Science (online).
8. **VanRullen, R. (2021).** Do deep learning latent spaces resemble human brain representations? NeuroCog 2021 (Louvain, Belgium).
9. **VanRullen, R. (2021).** Deep predictive coding for more robust and human-like vision, Invited presentation, SMB 2021: Annual meeting of the Society for Mathematical Biology (online).
10. **Devillers, B., Choksi, B., Bielawski, R., & VanRullen, R. (2021).** Does language help generalization in vision models? CoNLL2021: Proceedings of the 25th Conference on Computational Natural Language Learning, 171-182.
11. **VanRullen, R., & Alamia, A. (2021).** GAtANet: Global attention agreement for convolutional neural networks. ICANN 2021: International Conference on Artificial Neural Networks.
12. **Choksi, B., Mozafari, M., Biggs O'May, C., Ador, B., Alamia, A., & VanRullen, R. (2021).** Predify: Augmenting deep neural networks with brain-inspired predictive coding dynamics. NeurIPS 2021: Advances in Neural Information Processing Systems, 34.
13. **Devillers, B., Choksi, B., Bielawski, R., & VanRullen, R. (2021).** Does language help generalization in vision models? ViGIL workshop, NAACL 2021.
14. **Choksi, B., Mozafari, M., VanRullen, R., & Reddy, L. (2021).** Multimodal neural networks better explain multivoxel patterns in the hippocampus. In Neural Information Processing Systems (NeurIPS) conference: 3rd Workshop on Shared Visual Representations in Human and Machine Intelligence (SVRHM 2021).
15. **Fakche, C., VanRullen, R., Marque, P. & Dugué, L. (2021).** Causal link between the phase and amplitude of spontaneous alpha oscillations, cortical excitability and visual perception. European Conference on Visual Perception (online).
16. **Chalvidal, M., Ricci, M., VanRullen, R., & Serre, T. (2021).** Go with the flow: Adaptive control for Neural ODEs. ICLR 2021: International Conference on Learning Representations.
17. **Choksi, B., Mozafari, M., Biggs O'May, C., Ador, B., Alamia, A. & VanRullen, R. (2020).** Brain-inspired predictive coding dynamics improve the robustness of deep neural networks. NeurIPS 2020 Workshop SVRHM
18. **Pang, Z., Choksi, B., Biggs O'May, C. & VanRullen, R. (2020).** Predictive coding results in perceived illusory contours in a recurrent neural network. NeurIPS 2020 Workshop SVRHM
19. **VanRullen, R. & Reddy, L. (2020).** Brain decoding with GANs. WCNP: Winter Conference on Neural Plasticity
20. **Mozafari, M., Reddy, L., & VanRullen, R. (2020).** Reconstructing Natural Scenes from fMRI Patterns using BigBiGAN. Int. Joint Conf. Neural Networks (IJCNN)
21. **Alamia, A., Gauducheau, V., Paisios, D. & VanRullen, R. (2019).** Which neural network architecture matches human behavior in artificial grammar learning? Annual Conference on Cognitive Computational Neuroscience (CCN), Berlin (Germany).
22. **Schwenk, J., Zavitz, E., VanRullen, R., Price, N. S. & Bremner, F. (2019).** Neural correlates of perceptual echoes in marmoset primary visual cortex. Society for Neuroscience meeting (Chicago, USA).
23. **VanRullen, R. (2019).** Perceptual Cycles, Waves and Predictive Coding, Invited presentation, Asia-Pacific Conference on Vision (Osaka, Japan).
24. **VanRullen, R. (2019).** Perceptual Cycles, Waves and Predictive Coding, Invited presentation, York University VISTA - Centre for Vision Research International Conference on Predictive Vision, Toronto (Canada).
25. **VanRullen, R. (2019).** Perceptual Cycles, Waves and Predictive Coding, Invited presentation, Dynamics of Vision and Touch (DyViTo), Rauischholzhausen (Germany).
26. **Luo, C., Brüers, S., Berry, I., VanRullen, R. & Reddy, L. (2019).** fMRI signatures of perceptual echoes in early visual cortex. Vision Sciences Society Annual Meeting, St Pete Beach (USA)

27. **Merholz, G., VanRullen, R. & Dugué, L. (2019).** Oscillations modulate attentional search performance periodically. Vision Sciences Society Annual Meeting, St Pete Beach (USA)
28. **VanRullen, R. (2018).** Perceptual Cycles, Waves and Predictive Coding, Invited presentation, Alpha Scales workshop, European Institute of Theoretical Neuroscience, Paris (France).
29. **Schwenk, J., VanRullen, R. & Bremmer, F. (2018).** The effects of short-term monocular deprivation on visual perceptual echoes. Society for Neuroscience meeting (San Diego, USA).
30. **VanRullen, R. & Reddy, L. (2018).** Reconstructing faces from fMRI patterns using Generative Adversarial Networks. Annual Conference on Cognitive Computational Neuroscience (CCN), Philadelphia (USA).
31. **Alamia, A. & VanRullen, R. (2018).** Predictive Coding Produces Alpha-band Rhythmic Travelling Waves. Annual Conference on Cognitive Computational Neuroscience (CCN), Philadelphia (USA).
32. **VanRullen, R. (2018).** Perceptual Cycles, Waves and Predictive Coding, Invited presentation, Symposium on New trends in decision-making: decision as inference? Paris (France).
33. **VanRullen, R. (2017).** Perceptual Cycles and Waves, Invited presentation, Timing Research Forum, Strasbourg (France).
34. **Reddy, L., Cichy, R. & VanRullen, R. (2017).** Using DNNs as a yardstick for estimating the representational value of oscillatory brain signals. Annual Conference on Cognitive Computational Neuroscience (CCN), New York (USA).
35. **VanRullen, R. (2017).** Predictive coding and neural communication delays produce alpha-band oscillatory Impulse Response Functions. Annual Conference on Cognitive Computational Neuroscience (CCN), New York (USA).
36. **Reddy, L., Cichy, R. & VanRullen, R. (2017).** Oscillatory signatures of object recognition across cortical space and time. 40th European Conference on Visual Perception (ECPV), Berlin (Germany).
37. **Brüers, S. & VanRullen, R. (2017).** Does alpha power modulate perception independently of endogenous factors? 13th International Conference for Cognitive Neuroscience (ICON), Amsterdam (Netherlands).
38. **Reddy, L., Cichy, R. & VanRullen, R. (2017).** Oscillatory signatures of object recognition across cortical space and time. Proceedings of the 17th Vision Sciences Society annual meeting, St Pete (Florida, USA).
39. **Brüers, S. & VanRullen, R. (2017).** At what latency does the phase of brain oscillations influence perception? Proceedings of the 17th Vision Sciences Society annual meeting, St Pete (Florida, USA).
40. **Gulbinaite, R., Roozendaal, D. & VanRullen, R. (2017).** Attention effects on steady-state visual evoked potentials in response to 3-80 Hz flicker. Proceedings of the 17th Vision Sciences Society annual meeting, St Pete (Florida, USA).
41. **Edwards, G., VanRullen, R. & Cavanagh, P. (2017).** EEG decoding of pre-saccadic effects on post-saccadic processing. Proceedings of the 17th Vision Sciences Society annual meeting, St Pete (Florida, USA).
42. **Benedetto, A., Lozano-Soldevilla, D. & VanRullen, R. (2017).** Ambient luminance changes modulate oscillatory properties of the visual system. Proceedings of the 17th Vision Sciences Society annual meeting, St Pete (Florida, USA).
43. **Chemla, S., Chavane, F. & VanRullen, R. (2016).** Revealing alpha oscillatory activity using voltage-sensitive dye imaging in monkey V1. European Conference on Visual Perception (Barcelona, Spain).
44. **Edwards, G., Marque, P., VanRullen, R. & Cavanagh, P. (2016).** Predictive position percepts mediated by parietal areas: TMS evidence. Proceedings of the 16th Vision Sciences Society annual meeting, St Pete (Florida, USA).
45. **Gulbinaite, R., Ilhan, B. & VanRullen, R. (2016).** Something out of nothing: The role of alpha-frequency reverberation in the triple-flash illusion. Proceedings of the 16th Vision Sciences Society annual meeting, St Pete (Florida, USA).
46. **Lozano-Soldevilla, D. & VanRullen, R. (2016).** The hidden spatial dimension of alpha: occipital EEG channels encode contralateral and ipsilateral visual space at distinct phases of the alpha cycle. Proceedings of the 16th Vision Sciences Society annual meeting, St Pete (Florida, USA).
47. **Crouzet, S. & VanRullen, R. (2016).** The half-time groove of divided attention: differences in EEG and decoding power spectra when attending to one vs. two items. Proceedings of the 16th Vision Sciences Society annual meeting, St Pete (Florida, USA).
48. **Brüers, S. & VanRullen, R. (2016).** Visual target detection in temporal white-noise: A “universal” forward model using oscillatory impulse response functions. Proceedings of the 16th Vision Sciences Society annual meeting, St Pete (Florida, USA).